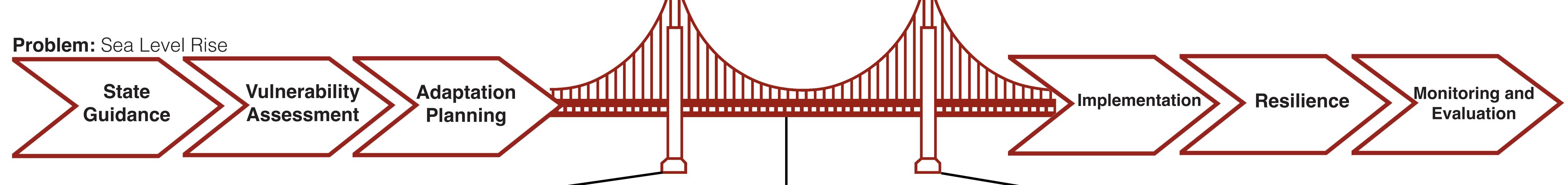
This guidance is intended to help local governments unsure of how to take the next step in choosing and implementing sea level rise adaptation strategies. It includes a categorization and analysis of planning, regulatory, market-based, and engineering tools that jurisdictions can use as a first step to catalyze action on adaptation strategy implementation. Additionally, this report provides a discussion of undertaking legal, coordination, and equity

considerations when adapting to sea level rise.

Beyond the Vulnerability Assessment: Moving from Sea Level Rise Adaptation Planning to Implementation in the San Francisco Bay Area

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Example Tool #1: Overlay Zones/Districts Tool Type: Regulatory Strategy: Zoning "Overlay zones superimpose additional regulations on an existing zone based upon special characteristics of that zone," (Grannis 2011). Overlay Zones Overlay Zones Purpose: Protect/Accommodate/Retreat/Preserve Current Development Stage: Pre-Development/Existing Development/Redevelopment

Example Tool #2: Rebuilding/ Redevelopment Restrictions Tool Type: Regulatory Strategy: Rebuilding/Redevelopment Restrictions "Limit a property owner's ability to rebuild structures destroyed by natural hazards..." (Grannis 2011). Rebuilding/ Redevelopment Redevelopment Purpose: Accommodate/Retreat/Preserve Current Development Stage: Redevelopment Example(s): Maine's Sand Dune Rules, South Carolina's Beach Front Management Act

By the Numbers

Example Tool #3: Transferable Development Credits (or Rights) Programs Tool Type: Market-Based Strategy: Tax and Other Development Incentives "Restrict development in one area and allow for the transfer of development rights to another area more appropriate for intense use." Includes the creation of a development rights bank and identification of "conding and receiving" areas. (Grapping)

development rights to another area more appropriate for intense use." Includes the creation of a development rights bank and identification of "sending and receiving" areas, (Grannis 2011). These programs are also a zoning tool and can be paired with overlay zones to identify sending and receiving areas. To ensure that sending areas are preserved, sending landowners should execute a permanent conservation easement, (Herzog and Hecht 2013).

Purpose: Accommodate/Preserve

Current Development Stage: Pre-Development/Redevelopment

Example(s): Hillsborough Co, FL; Collier Co, FL; Malibu,

CA; Ocean City, MD

Common Barriers

Example(s): East Hampton, NY; Model SLR Overlay Zone

for MD; Tillamook Co, OR



GENERAL#TOOL TYPE4STRATEGY13TOOL68SUB-TOOL/COMPONENTS37

PURPOSE	# of tools
PROTECT	23
ACCOMMODATE	48
RETREAT	40
PRESERVE	48

PLANNING	5
REGULATORY	36
MARKET-BASED	21
ENGINEERING	6
CURRENT # of tools DEVELOPMENT STAGE	
PRE-	49
DEVELOPMENT	
EXISTING	38
DEVELOPMENT	
REDEVELOPMENT	58

of tools

TOOLS BY TYPE

Guiding Principles

